

© PAJ / JPO

PN - JP11013640 A 19990119

TI - OIL PUMP STRUCTURE

AB - PROBLEM TO BE SOLVED: To decrease the generation of a moment due to offset in the axial direction of a contact point between the internal part rotary member of an oil pump and the rotation drive member thereof and improve durability of an internal rotation member and a bush for the internal rotation member.

- SOLUTION: An oil pump structure is formed such that a protrusion part 2a formed in the peripheral symmetrical position of the sleeve 2 of the torque converter is inserted in a key groove formed in the peripheral direction-symmetrical position of the inner rotor of an oil pump. In this case, a circular arc is formed in the two end faces in the rotation direction of the protrusion part 2a of the sleeve 2 and offset in the axial direction of a contact point between two members occurring during decentering of the central axes of an inner rotor and the sleeve.

I - F04C2/10

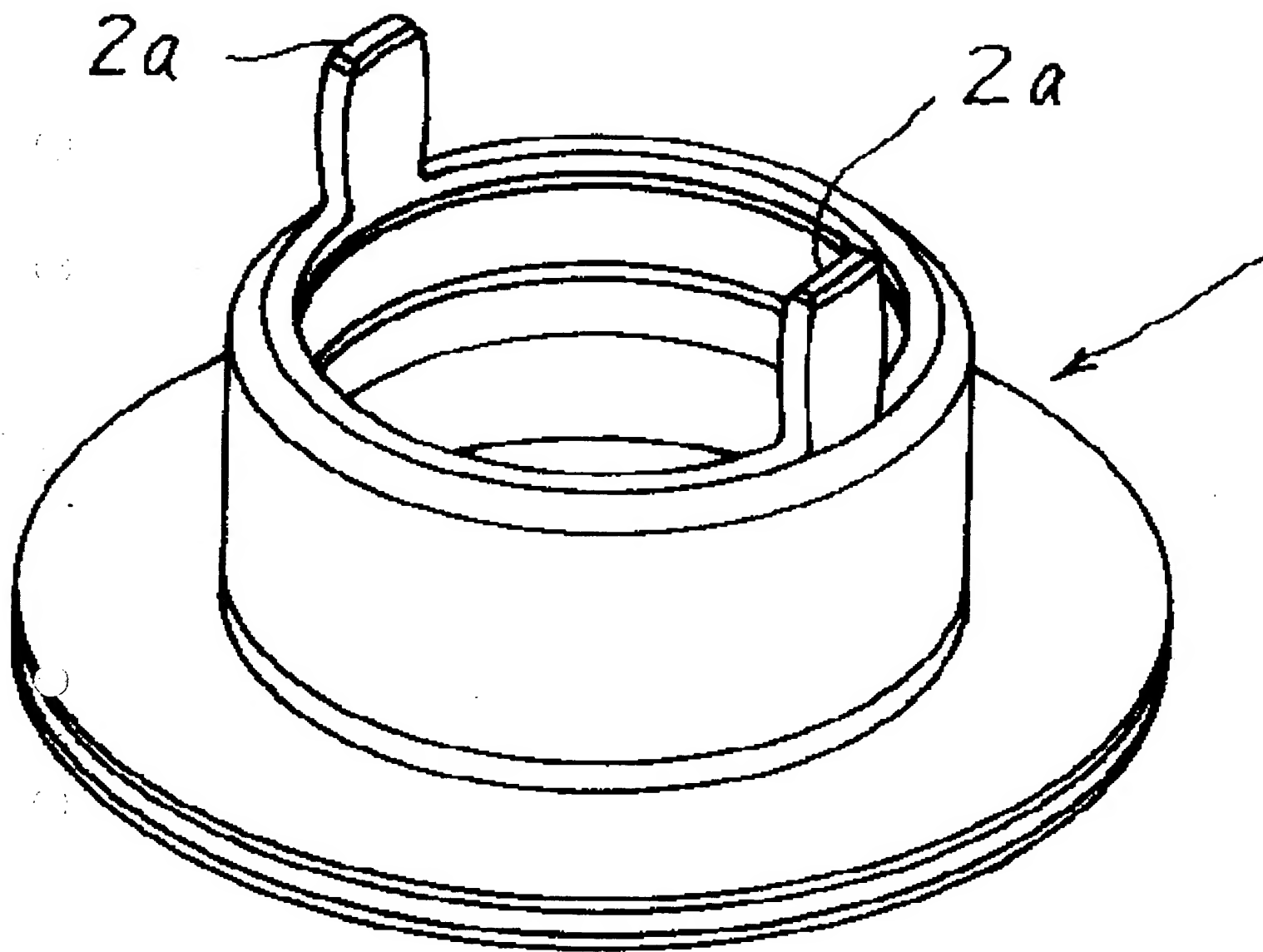
PA - NISSAN MOTOR CO LTD

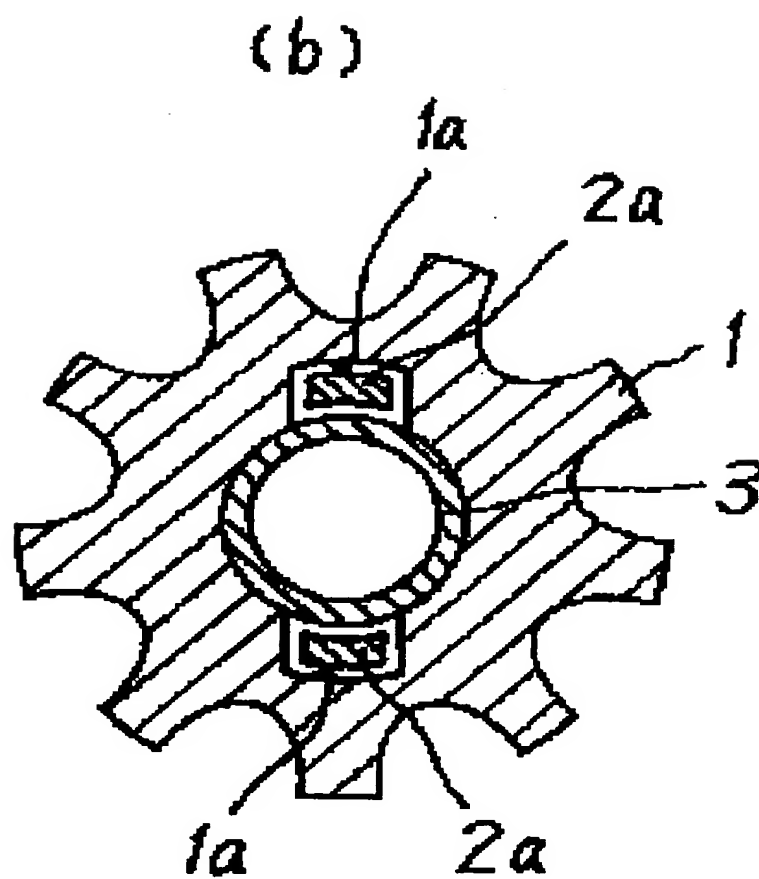
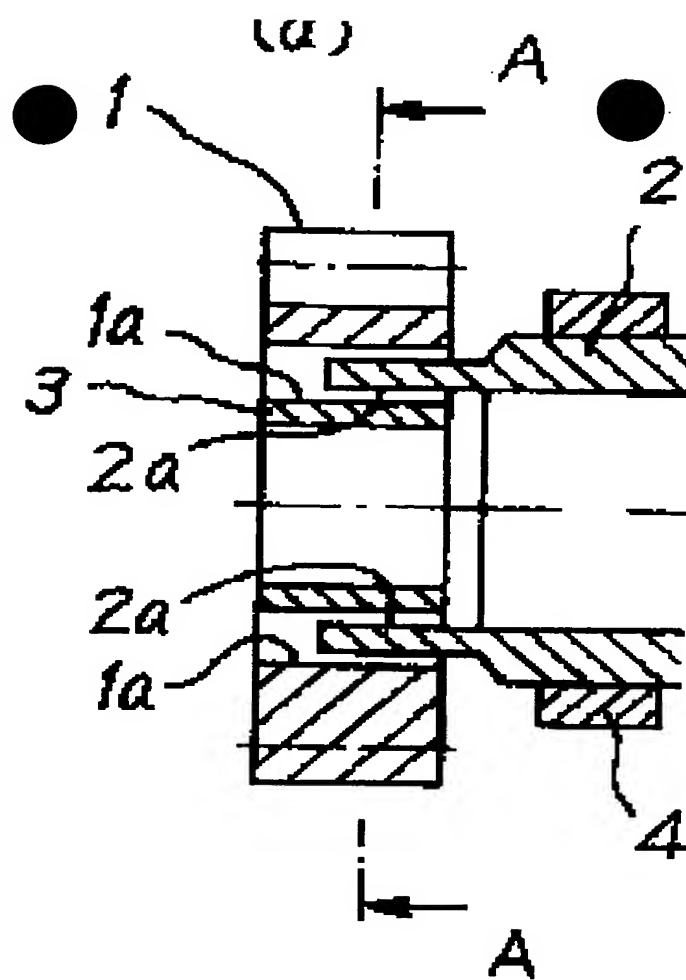
IN - KOYAMA TAKAO

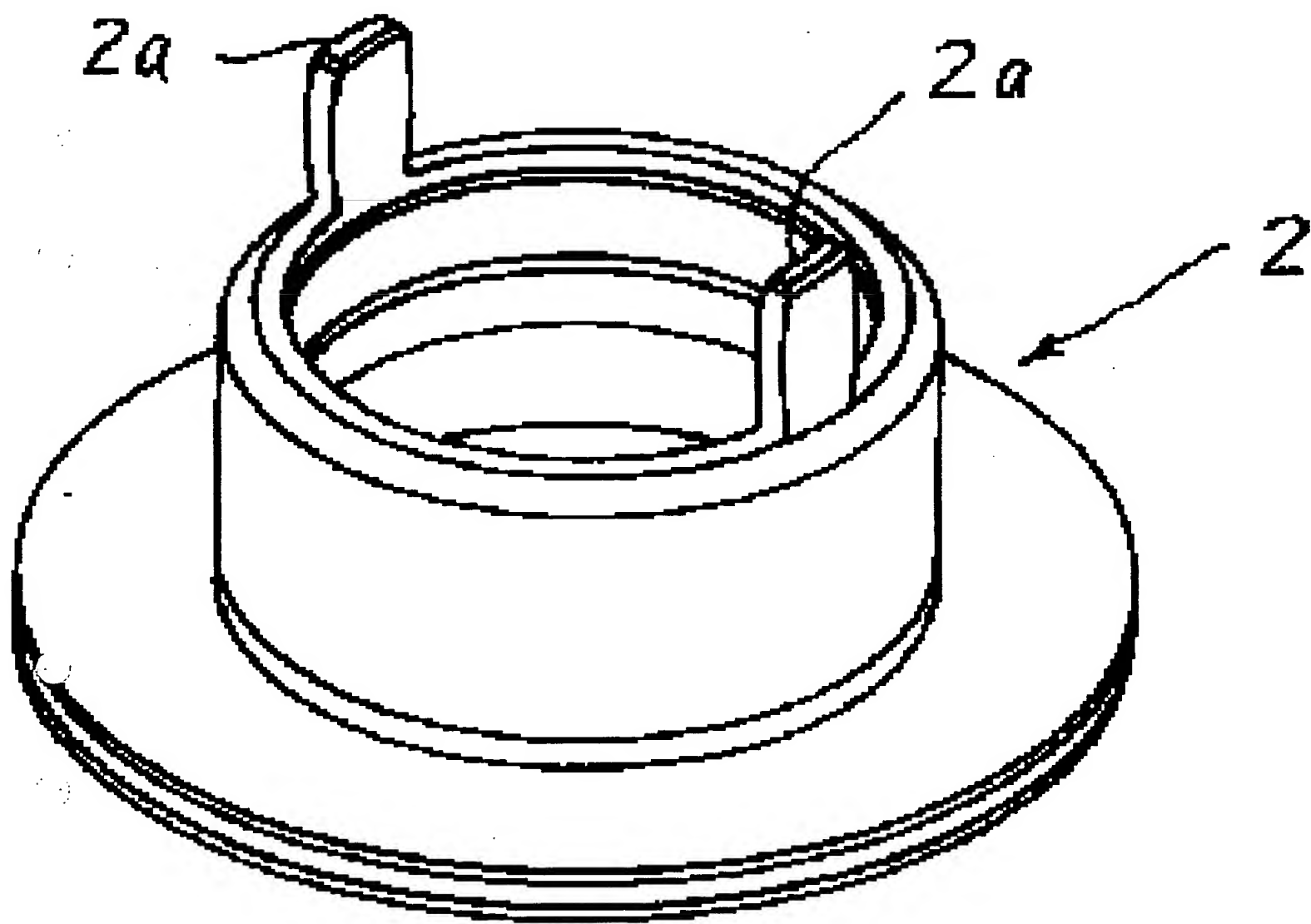
ABD - 19990430

ABV - 199904

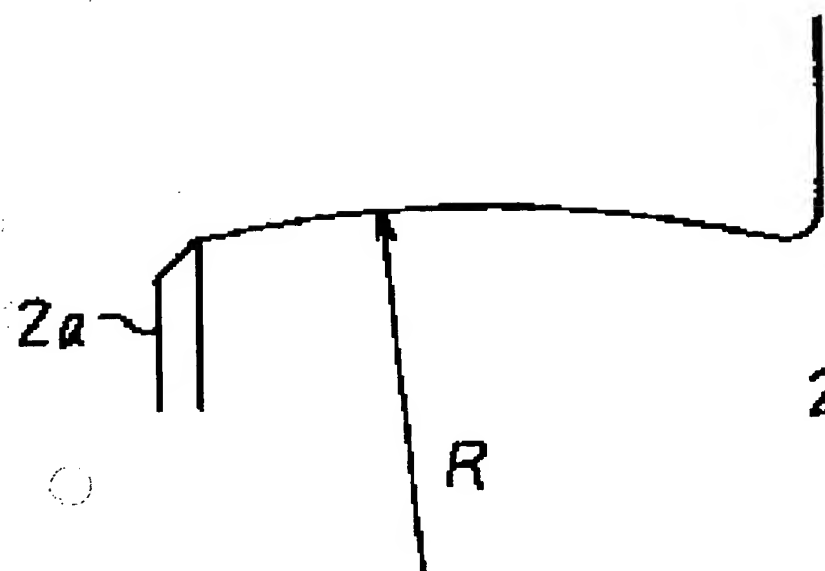
AP - JP19970162420 19970619



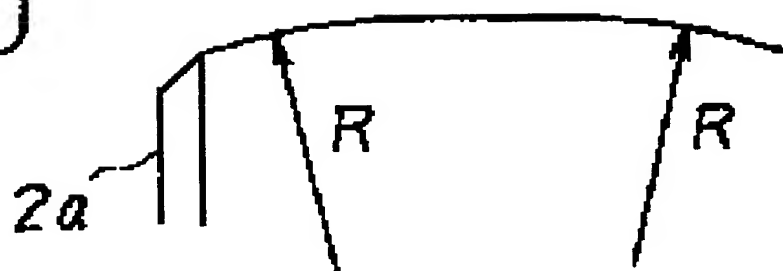




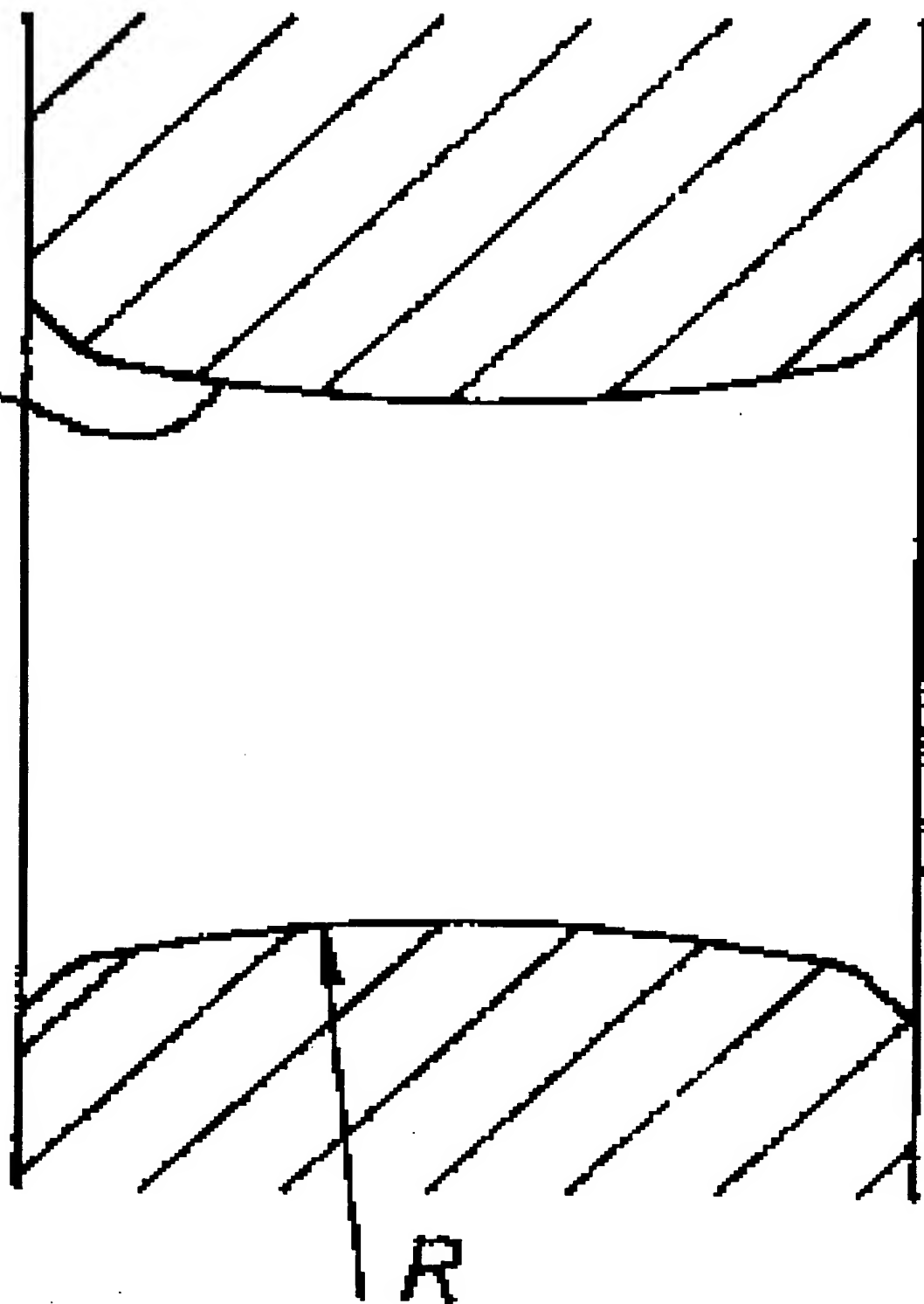
(a)

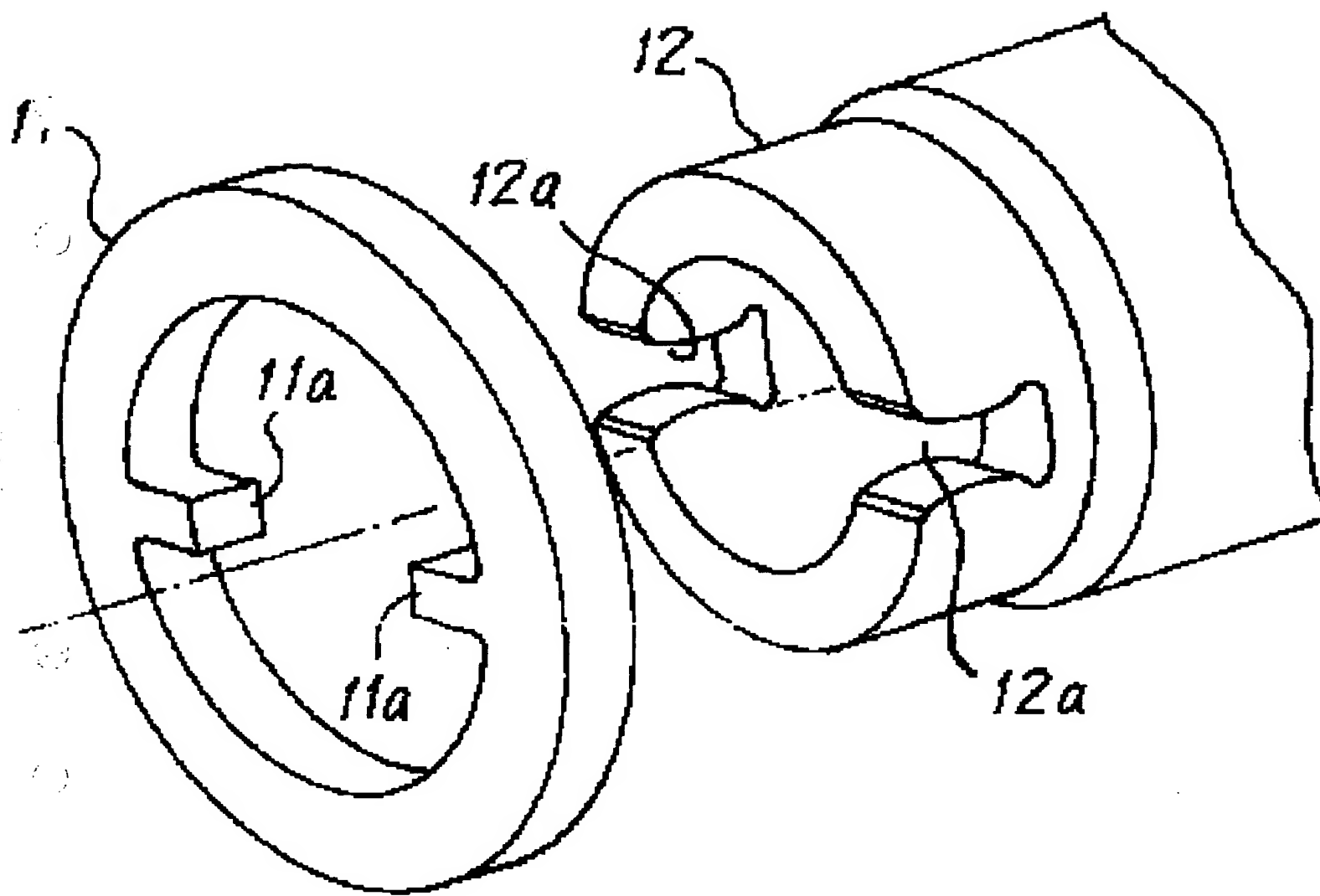


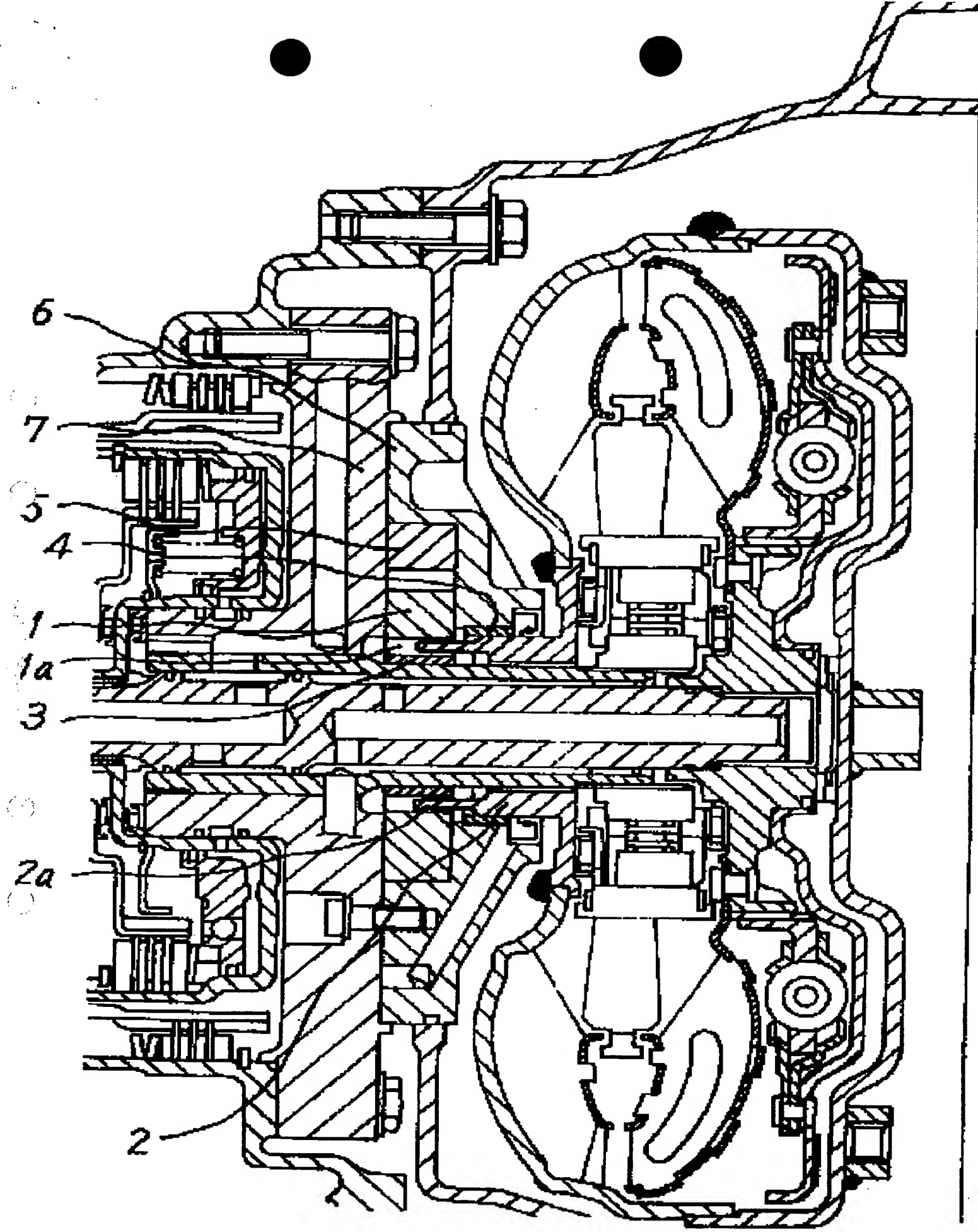
(b)



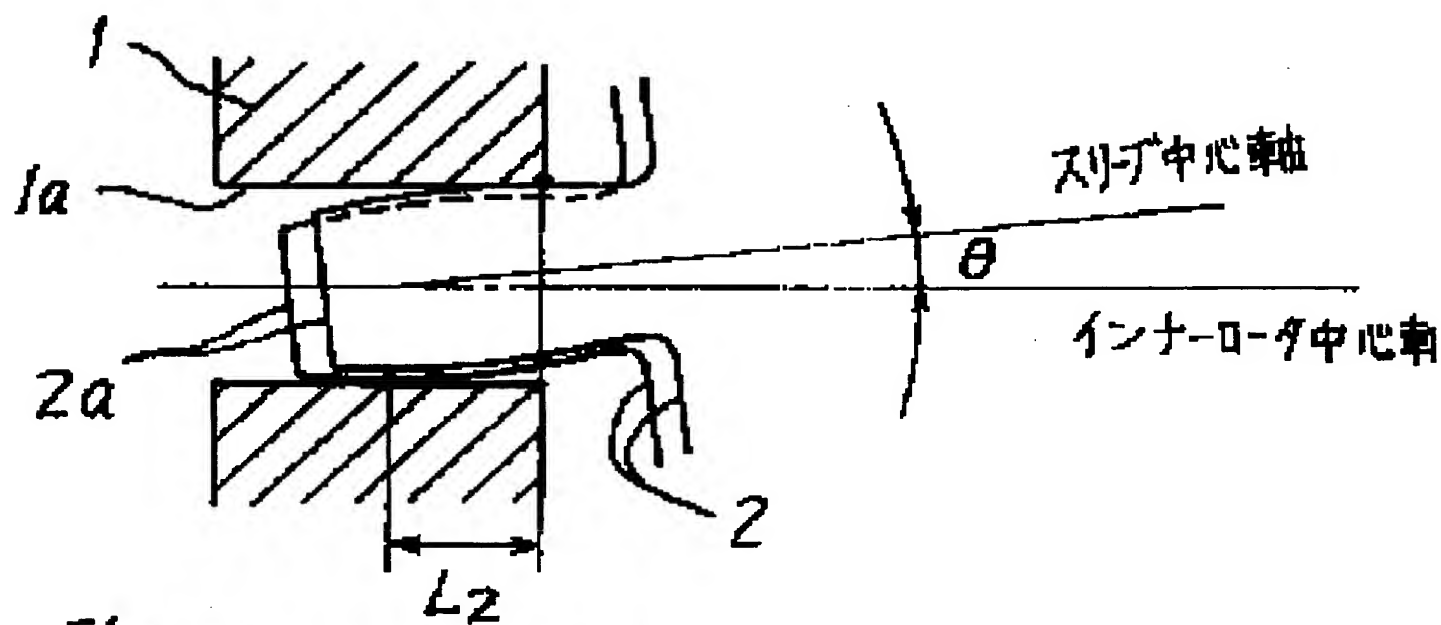
1a



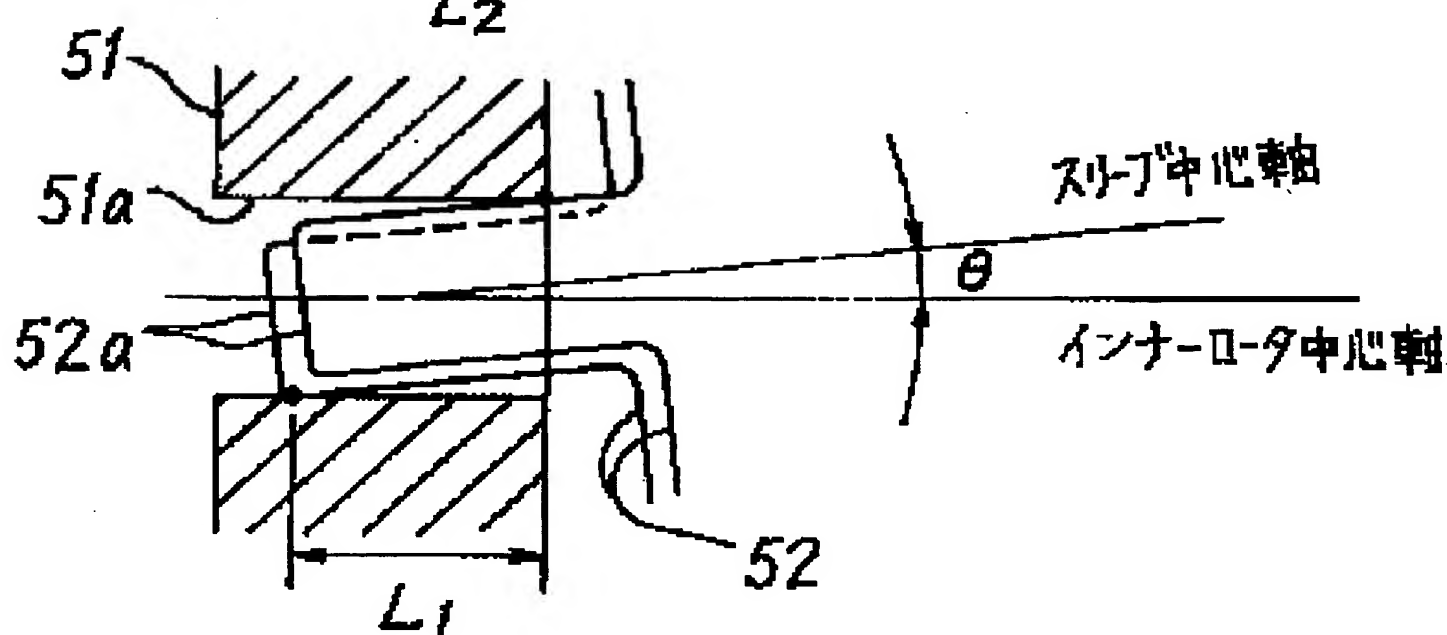




(a)



(b)



(a)

↓ 吐出圧 (入力一定)

インナーギア

インナーギアブッシュ

ステータシャフト

クリアランス

P (クサビ圧)

↑ F_1

(b)

↓ 吐出圧 (入力一定)

インナーギア

インナーギアブッシュ

ステータシャ

クリアランス

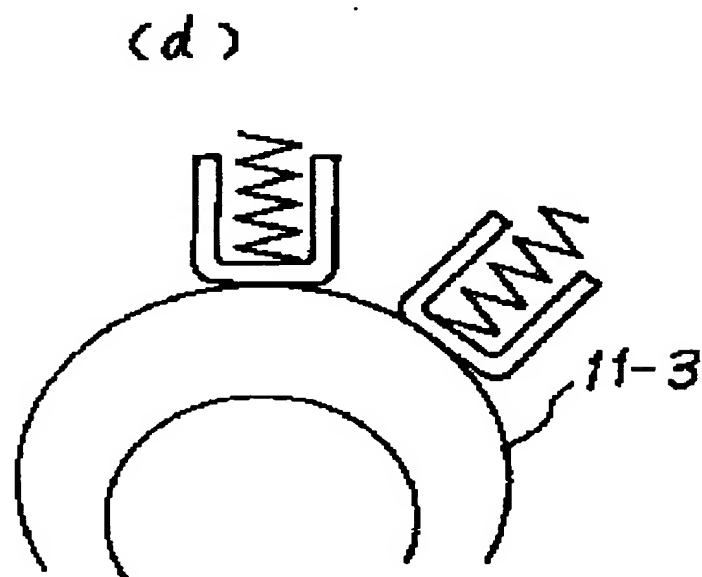
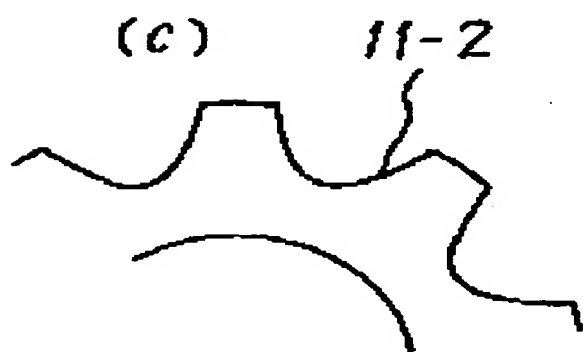
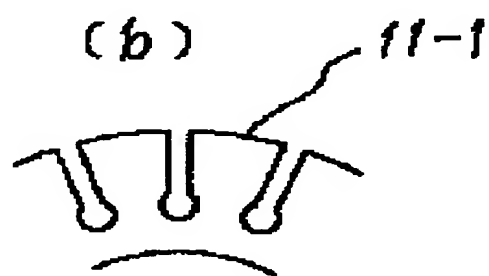
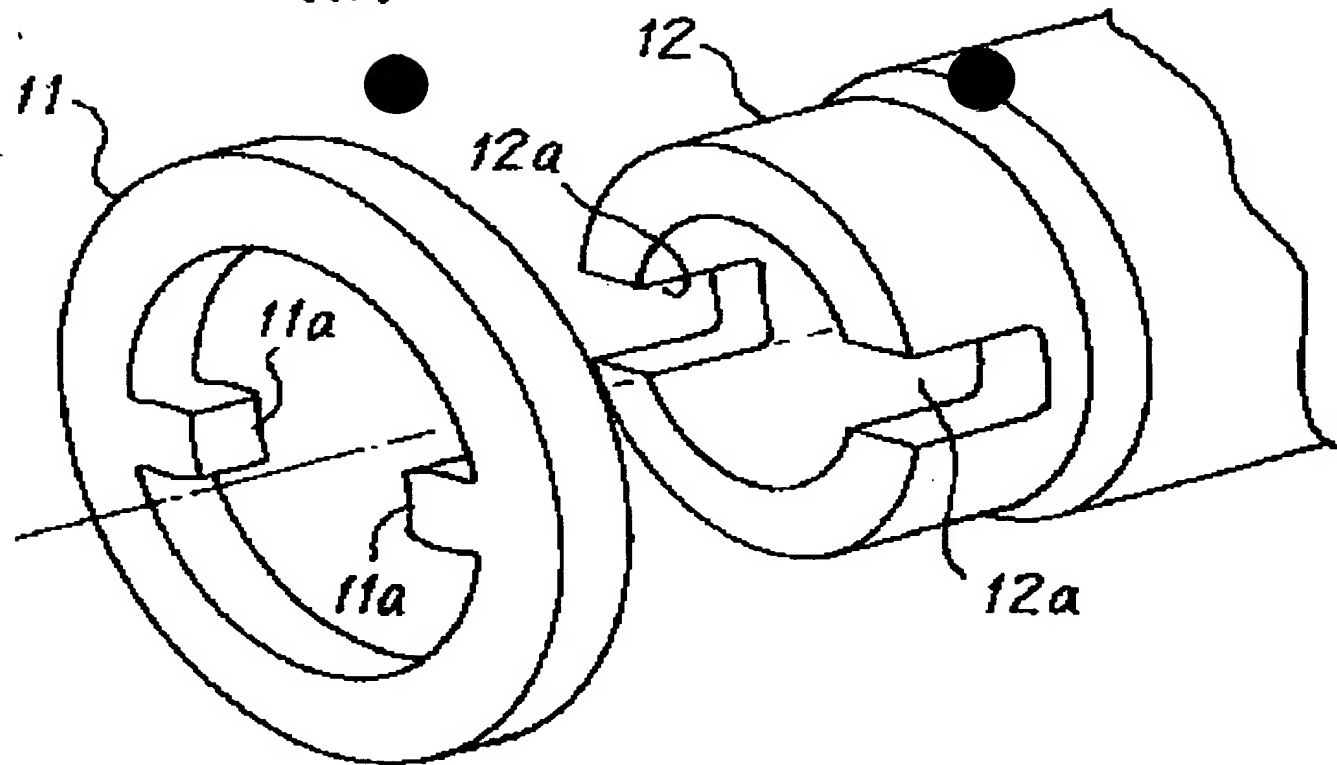
P (クサビ圧)

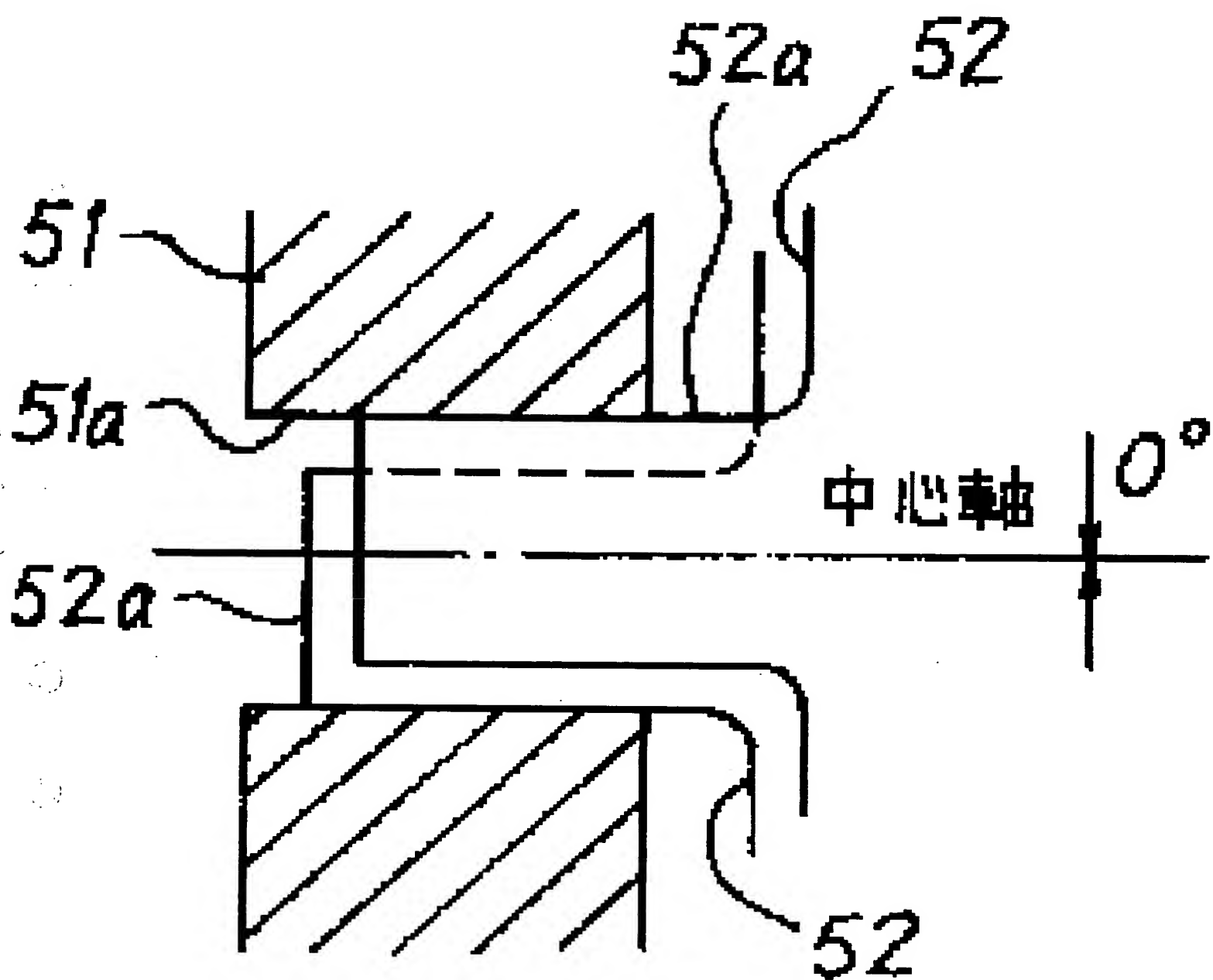
↑ F_2

(c)

(d)

(e)





**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☒ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.